

**GeoInsight®**Environmental Strategy & Engineering
Practical in Nature

May 21, 2007

GeoInsight Project 2491-001

Frank Gardner
U.S. Environmental Protection Agency
One Congress Street, Suite 1100-HBR
Boston, Massachusetts 02114-2023

Wells G & H
2.6

RE: Thirty Fifth Progress Report
Administrative Order on Consent for Removal Action
Wells G&H Superfund Site
Olympia Nominee Trust Property
60 Olympia Avenue
Woburn, Massachusetts
CERCLA Docket # 01-2004-0059

Dear Mr. Gardner:

GeoInsight, Inc. (GeoInsight) prepared this progress report to describe activities completed at 60 Olympia Avenue in Woburn, Massachusetts (the Site) during the thirty fifth progress report period (April 21, 2007 to May 21, 2007). This report was prepared in accordance with the June 21, 2004 United States Environmental Protection Agency (USEPA) Administrative Order on Consent for Removal Action (CERCLA Docket No. 01-2004-0059; the "Order"). The report was prepared by GeoInsight at the request of Olympia Nominee Trust, current owner of the 60 Olympia Avenue property.

Please find the attached Work Plan Implementation Schedule (the "Schedule"). The status of specific tasks is presented below.

Ground Water Sampling Event

A comprehensive ground water sampling event was performed on April 24, 25, and 26, 2007. The April 24, 25, and 26, 2007 ground water sampling event included monitoring wells located within the interior and exterior of the containment cell. Ground water samples were not collected from monitoring wells that contained unreacted permanganate. Two deep monitoring

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well were sampled underneath the containment cell (OL-2M and GEO-1), five monitoring wells were sampled inside the containment cell (MW-203S, MW-204D, MW-205D, MW-206D and MW-211S), and twenty-eight monitoring wells were sampled outside the containment cell (MW-200 series, MW-12, MW-13, MW-014S, MW-014M, MW-014D, OL-005, GEO-6, and GEO-7). Ground water samples were collected using low flow sampling techniques and submitted to Groundwater Analytical, Inc. for laboratory analyses of volatile organic compounds (VOCs), dissolved arsenic, dissolved manganese, dissolved iron, sodium, and chloride.

The laboratory analytical report and tabulated data for the comprehensive ground water sampling event performed on April 24, 25, and 26, 2007 will be forwarded to the USEPA after a quality assurance review of these data is completed.

Permanganate Monitoring

Permanganate monitoring was performed on April 24, 25, and 26, 2007 for 25 monitoring wells located inside the containment cell (including the MW-200 series monitoring wells, GEO-1, and OL-2M) and 27 monitoring wells located outside the containment cell (including the MW-200 series monitoring wells, MW-12, MW-13, MW-014S, MW-014M, and MW-014D, OL-005, GEO-6, and GEO-7).

Water in the monitoring wells was collected and visually examined using a peristaltic pump with clear tubing. Permanganate was observed at monitoring well locations inside the containment cell during this reporting period except for monitoring wells GEO-1, OL-2M, MW-203S, MW-204D, MW-205D, MW-206D, MW-211S, and MW-212S. Permanganate was not observed outside of the containment cell except for one location. Dilute permanganate was observed in monitoring well MW-218D (screened 37 to 40 feet below grade surface (bgs)) located outside and to the south of the containment cell. A light pink color was observed during well purging and in the ground water samples collected from monitoring well MW-218D.

Areas of Interest

GeoInsight submitted a Scope of Work (SOW) on November 28, 2006 to evaluate three primary areas of interest that were discussed during the September 20, 2006 on-site meeting. SOW assessment activities were performed on May 14 through May 18, 2007.

On May 14 and 15, 2007, discrete ground water samples were collected at five locations (designated as GWP-1 through GWP-5) in the area between the eastern side of the containment cell and the Aberjona River to delineate VOC concentrations in ground water. At each sampling location, discrete ground water samples were collected at 2-foot depth intervals from 3 to 21 feet bgs. Discrete ground water samples were collected using low-flow techniques and submitted to Ground Water Analytical, Inc. for laboratory analyses of VOCs via USEPA Method 8260B. In addition, GeoInsight oversaw the advancement to two soil borings to a depth of 20 feet bgs in this area. Soil samples were collected continuously and screened with a photoionization detector (PID).



On May 16, 2007, GeoInsight oversaw the advancement of four soil borings and the installation of two piezometers in the area between the southern corner of the containment cell and the City of Woburn and MWRA sewer lines. Soil boring locations were pre-cleared to a depth of approximately 10 feet bgs with a vacuum truck. Soil borings were advanced to a depth of 25 feet bgs and sampled continuously to obtain field screening measurements with a PID to develop a vertical profile of potential VOC impacts to soil in this area. Two soil borings were completed with piezometers installed at depths of 20 feet bgs with a screen interval from 15 to 20 feet bgs. A focused ground water sampling event that will include the newly installed piezometers and additional selected monitoring wells is scheduled for June 2007.

On May 16, through May 18, 2007, GeoInsight oversaw the advancement of eight soil borings and the installation of eight injection wells inside the containment cell. During soil boring advancement, soil samples were collected continuously and screened with a PID. Soil conditions (i.e., presence or absence of permanganate and odor) and stratigraphy were observed for each soil boring. Upon completion, an injection well (designated K1 through K8) were installed in each boring with a screened interval from 12 to 17 feet bgs. The annular space was backfilled with sand to 1 foot above the screen and completed with grout and a metal standpipe.

Information and data collected during the assessment activities will be provided to the USEPA in a project memorandum.

Please contact us at 978-692-1114 if you have questions or would like to discuss this project.

Sincerely,
GEOINSIGHT, INC.

Caroline N. Butcher
Staff Hydrogeologist

Michael J. Webster, P.G., L.S.P.
Senior Associate

cc: Chub Whitten, Olympia Nominee Trust
David P. Rosenblatt, Esq., Burns & Levinson LLP

Attachments:
Work Plan Implementation Schedule



WORK PLAN IMPLEMENTATION SCHEDULE
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

TASK DESCRIPTION	SCHEDULE
Permits Submit permit application to Massachusetts Water Resources Authority (MWRA) to drive sheet pile and continue construction activities. MWRA Approval	Completed October 2004 October 26, 2004
Site Preparation Bridge Enhancements for Sheet Pile Crane Brush Clearing	Completed November 2004
Sheet Pile Installation	Completed January 2005
Injection Well and Trench Installation Trenching Horizontal Wells (5 days) Drilling Vertical Wells (10 days)	Completed January 2005
Monitoring Well Installation Additional Injection Wells	Completed February 2005 Completed August 2005
Installation of Liquid Permanganate Delivery System Staging Area for Permanganate Storage	Completed May 2005
Delivery of Permanganate (70 drums total) Delivery of Permanganate (70 drums total) Delivery of Permanganate (21 drums total)	May 11, 2005 and June 10, 2005 October 7, 2005 and October 28, 2005 December 2, 2005
Up to 20 Injection Events - Dependent on Site Monitoring (1,000 gallons of NaMnO ₄ per event)	1 st Injection: September 1, 2005 (Trench) 2 nd Injection: September 15, 2005 (Trench) 3 rd Injection: September 29, 2005 (Wells) 4 th Injection: October 13, 2005 (Trench) 5 th Injection: November 3, 2005 (Wells) 6 th Injection: November 10, 2005 (Trench) 7 th Injection: November 22, 2005 (Wells) 8 th Injection: December 20, 2005 (Wells/Trench)



**WORK PLAN IMPLEMENTATION SCHEDULE
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS**

TASK DESCRIPTION	SCHEDULE
Ground Water Monitoring	
2005 Baseline Comprehensive Sampling Event	April 13 and 14, 2005
Focused Sampling Events	September 13, 2005 January 11, 2006 February 9, 2006 March 10, 2006
2006 Comprehensive Sampling Event	April 24, 25, and 26, 2006
Focused Sampling Events	July 19, 2006 August 31, 2006 September 28, 2006 October 30, 2006 December 14, 2006 March 28, 2007
2007 Comprehensive Sampling Event	April 24, 25, 26, 2007
Additional Assessment Activities included in November 28, 2006 Scope of Work	
Subsurface Investigation Activities	May 14, through 18, 2007
Focused Sampling Event	June 2007



"Caroline N. Butcher"
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05/23/2007 02:31 PM

To <cwhitten@juniperllc.com>, Frank
Gardner/R1/USEPA/US@EPA, Joe
Lemay/R1/USEPA/US@EPA,
cc "Michael J. Webster" <MJWebster@geoinc.com>, "Christene
A. Binger" <CABinger@geoinc.com>
bcc

Subject 35th Progress Report - 60 Olympia

Gentlemen,

Please find the attached progress report for 60 Olympia Avenue in Woburn, Massachusetts.

Please contact me if you have questions.

Regards,

Caroline Butcher

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